

CLAIMS

1. (Currently Amended) A contents data transmission/reception system comprising a contents data transmitter transmitting contents data and a contents data receiver receiving the contents data,

wherein the contents data transmitter includes:

a key information selection part which generates a plurality of key information for encryption and selects a key information among a plurality of the key information;

a contents encryption part which encrypts an inputted contents data by using the key information selected by the key information selection part; and

a transmitter transmission/reception part which transmits a plurality of the key information, and then the encrypted contents data and a selection information regarding the key information used in the encryption of the contents data to be transmitted, wherein the key information, the encrypted contents data and the selection information are divided to be transmitted through a plurality of signal routes respectively, and

the contents data receiver includes:

a receiver transmission/reception part which receives a plurality of the key information, the encrypted contents data and the selection information ~~from the contents data transmitter~~ through [[a]] the plurality of signal routes, each of which are connected to the contents data transmitter;

a key information storage part which stores a plurality of the received key information;

a key information extraction part which extracts the key information used in the encryption of the contents data based on the selection information among a plurality of the key information stored in the key information storage part;

a contents decryption part which decrypts the encrypted contents data by using the key information extracted by the key information extraction part; and

an output part which outputs the contents data decrypted by the contents decryption part.

2. (Original) The contents data transmission/reception system according to claim 1, wherein the contents data transmitter further includes a reproducing part which reproduces a contents data to input to the contents encryption part.

3. (Original) The contents data transmission/reception system according to claim 1, wherein

the contents data transmitter includes a transmission ID storage part which stores a plurality of transmission ID information assigned to respective contents data receivers,

the contents data receiver includes a reception ID storage part which stores a receiver ID information assigned to the contents data receiver,

the contents data transmitter selects one of the transmission ID information stored in the transmission ID storage part to transmit to the contents data receiver,

the contents data receiver transmits, when the received transmission ID information is coincident with the receiver ID information stored in the reception ID storage, a confirmation information indicating the coincidence to the contents data transmitter, and

the contents data transmitter transmits, when received the confirmation information from the contents data receiver, the key information, the encrypted contents data and the selection information to the contents data receiver.

4. (Original) The contents data transmission/reception system according to claim 3, wherein the transmission ID information is transmitted through a plurality of signal route.

5. (Original) The contents data transmission/reception system according to claim 1, wherein

contents data is inputted continuously, and

the key information selection part selects one among a plurality of the key information at a predetermined time interval.

6. (Original) The contents data transmission/reception system according to claim 1, wherein

the contents data transmitter transmits data divided in a plurality of data rows respectively through a plurality of the signal routes to the contents data receiver, and

the data row includes data areas for the encrypted contents data and the selection information.

7. (Currently Amended) A contents data transmitter transmitting contents data, comprising:

a key information selection part which generates a plurality of key information for encryption and selects a key information among a plurality of the key information;

a contents encryption part which encrypts an inputted contents data by using the key information selected by the key information selection part; and

a transmitter transmission/reception part which transmits a plurality of the key information, and then the encrypted contents data and a selection information regarding the key information used in the encryption of the contents data to be transmitted, wherein the key information, the encrypted contents data and the selection information are divided to be transmitted through a plurality of signal routes each of which are connected to a contents data receiver in that the encrypted contents data is encrypted by using a corresponding key information extracted among a plurality of the received key information based on the received selection information.

8. (Original) The contents data transmitter according to claim 7, further comprising a reproducing part which reproduces a contents data to input to the contents encryption part.

9. (Original) The contents data transmitter according to claim 7, wherein the contents data transmitter includes a transmission ID storage part which stores a plurality of transmission ID information assigned to respective contents data receivers, and

the contents data transmitter selects one of the transmission ID information stored in the transmission ID storage part to transmit to the contents data receiver, when the transmitted transmission ID information is coincident with the receiver ID information assigned to the contents data receiver and a confirmation information indicating the coincidence to the contents data transmitter is received from the contents data receiver, the contents data transmitter transmits the key information, the encrypted contents data and the selection information to the contents data receiver.

10. (Original) The contents data transmitter according to claim 9, wherein the transmission ID information is transmitted through a plurality of signal route.

11. (Original) The contents data transmitter according to claim 7, wherein contents data is inputted continuously, and the key information selection part selects one among a plurality of the key information at a predetermined time interval.

12. (Original) The contents data transmitter according to claim 7, wherein the contents data transmitter transmits data divided in a plurality of data rows respectively through a plurality of the signal routes to the contents data receiver, and

the data row includes data areas for the encrypted contents data and the selection information.

13. (Currently Amended) A contents data receiver receiving contents data from a contents data transmitter, comprising:

a receiver transmission/reception part which receives a plurality of the key information for encryption, a contents data encrypted by using a key information selected from a plurality of the key information and a selection information regarding the key information used in the encryption of the contents data from the contents data transmitter through a plurality of signal routes each of which are connected to the contents data transmitter, wherein the key information, the encrypted contents data and the selection information are divided to be transmitted through the plurality of signal routes respectively;

a key information storage part which stores a plurality of the received key information;

a key information extraction part which extracts the key information used in the encryption of the contents data based on the selection information among a plurality of the key information stored in the key information storage part;

a contents decryption part which decrypts the encrypted contents data by using the key information extracted by the key information extraction part; and

an output part which outputs the contents data decrypted by the contents decryption part.

14. (Original) The contents data receiver according to claim 13, wherein the contents data receiver includes a reception ID storage part which stores a receiver ID information assigned to the contents data receiver,

the contents data receiver receives one of transmission ID information assigned to respective contents data receivers from the contents data transmitter,

the contents data receiver transmits, when the received transmission ID information is coincident with the receiver ID information stored in the reception ID storage, a confirmation information indicating the coincidence to the contents data transmitter, and

the contents data receiver receives from the contents data transmitter received the confirmation information from the contents data receiver, the key information, the encrypted contents data and the selection information to the contents data receiver.

15. (Currently Amended) A contents data transmission/reception method for transmitting and receiving contents data between a contents data transmitter and a contents data receiver, including:

generating a plurality of key information for encryption in the contents data transmitter and transmitting a plurality of the key information from the contents data transmitter to the contents data receiver;

selecting one key information from a plurality of the generated key information in the contents data transmitter;

encrypting a contents data by using the selected key information in the contents data transmitter;

transmitting the encrypted contents data and a selection information regarding the selected key information from the contents data transmitter to the contents data receiver through a plurality of signal routes each of which are connected to the contents data transmitter, wherein the key information, the encrypted contents data and the selection information are divided to be transmitted through the plurality of signal routes respectively;

extracting the key information used in the encryption of the contents data from a plurality of the key information in the contents data receiver;

decrypting the encrypted contents data in the contents data receiver; and
outputting the decrypted contents data from the contents data receiver.

16. (Original) The contents data transmission/reception method according to claim 15, further including reproducing a contents data to be encrypted.

17. (Original) The contents data transmission/reception method according to claim 15, further including

transmitting one of transmission ID information assigned to respective contents data receiver from the contents data transmitter to the contents data receiver through a plurality of signal routes; and

transmitting, when the transmission ID information is coincident with a receiver ID information assigned to the contents data receiver, a confirmation information indicating the coincidence from the contents data receiver to the contents data transmitter.

18. (Original) The contents data transmission/reception method according to claim 15, wherein

the method further includes transmitting a reception information indicating that the contents data receiver receives a plurality of the key information from the contents data receiver to the contents data transmitter through a plurality of signal routes, and

when the reception information is received by the contents data transmitter, the one key information from a plurality of the key information is selected in the contents data transmitter.

19. (Original) The contents data transmission/reception method according to claim 15, wherein the contents data is inputted continuously, and

one key information for encryption is selected from a plurality of the key information at a predetermined time interval.